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**MODEL 5302027**

**1.8 - 2.0 GHz**  
**12 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Band-specific High  
 Power RF Amplifier**

The 5302027 is a 12 Watt band-specific amplifier that covers the 1.8 – 2.0 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5302027 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1.8 – 2.0 GHz
2	Instantaneous Bandwidth	60 MHz min
3	Saturated Output Power	12 Watts typical
4	Power Output @ 1dB Comp.	10 Watts min
5	Power Output CDMA	2 Watts typical
6	Small Signal Gain	+45 dB min
7	Gain Flatness	± 1.0 dB max
8	IP <sub>3</sub>	+50 dBm typical
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc typical @ 10 Watts
11	Spurious Signals	> -60 dBc typical @ 10 Watts
12	Input/Output Impedance	50 Ohms nominal
13	DC Input Current	3 Amps max
14	DC Input	13 VDC nominal
15	RF Input	-5 dBm max
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
18	Dimensions	6.0" x 2.75" x 0.83"
19	Weight	2 lb. max
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



Approved By: \_\_\_\_\_ Date: \_\_\_\_\_